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4. (1 point) If you had to pick one value of K , which value would you pick? Justify your choice.

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Based on real life I would have to pick $K = 2$. This is because the data is from a breast cancer dataset and it is supposed to be classified into two categories: malignant and benign.

However, based on the graph, I would pick $K = 4$ because it seems to be the elbow point of the graph. This could be caused by the cancer data being taken from different stages of cancer, and therefore separating into some more categories than just malignant and benign.

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